CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.11/A/CEMENT/2014-15 Date: 20.08.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. Ashwathnarayana,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to CC Roads at Varadarajanagara behind Government School Roads in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/BBMP/VSD/PR/230/2/2014-15 Dated: 18.08.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	495 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

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Job No.: CTCE/BBMP/W.No.11/A/SAND/2014-15 : 20.08.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Ashwathnarayana,** Contractor, Bangalore.

Name of Work : Improvements to CC Roads at Varadarajanagara behind Government School Roads in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/230/2/2014-15 Dated: 18.08.2014

Date of Testing : 20.08.2014

Material : Sand Total Wt. of Aggregates in gms 2000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	98	4.90	4.90	95.1	90-100
2.36	225	11.25	16.15	83.9	75-100
1.18	517	25.85	42.00	58.0	55-90
600 Micron	426	21.30	63.30	36.7	35-59
300 Micron	482	24.10	87.40	12.6	8-30
150 Micron	205	10.25	97.65	2.4	0-10

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ಯಲಹಂಕ ವಲಯ,
ಬ. ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-97

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Job No.: CTCE/BBMP/W.No.11/A/AGG/2014-15 : 20.08.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Ashwathnarayana,** Contractor, Bangalore.

Name of Work : Improvements to CC Roads at Varadarajanagara behind Government School Roads in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/230/2/2014-15 Dated: 18.08.2014

Date of Testing : 20.08.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms 26300

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	1022	3.89	3.89	96.11	95-100
20	15868	60.33	64.22	35.78	30-70
10	6233	23.70	87.92	12.08	10-35
4.75	2687	10.22	98.14	1.86	0-5

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Job No.: CTCE/BBMP/W.No.11/A/CUBE/2014-15 20.09.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Mr. Ashwathnarayana,** Contractor, Bangalore.

Name of the work : Improvements to CC Roads at Varadarajanagara behind Government School Roads in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.

Reference : AEE/BBMP/VSD/PR/230/2/2014-15 Dated: 18.08.2014

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.08.2014	20.09.2014	8.165	487.3	21.66
2	23.08.2014	20.09.2014	8.294	503.8	22.39
3	23.08.2014	20.09.2014	8.378	526.4	23.40

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.11/A/CUBE/2014-15 22.09.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Mr. Ashwathnarayana,** Contractor, Bangalore.
Name of the work	: Improvements to CC Roads at Varadarajanagara behind Government School Roads in Ward No.11 (Kuvempunagara), Vidyaranyapura Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/VSD/PR/230/2/2014-15 Dated: 18.08.2014
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.08.2014	22.09.2014	8.265	492.5	21.89
2	25.08.2014	22.09.2014	8.394	515.8	22.92
3	25.08.2014	22.09.2014	8.476	528.7	23.50

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Reference	: AEE/BBMP/VSD/PR/230/2/2014-15 Dated: 18.08.2014
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.08.2014	23.09.2014	8.348	526.2	23.39
2	26.08.2014	23.09.2014	8.163	490.8	21.81
3	26.08.2014	23.09.2014	8.279	512.7	22.79

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